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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/517,541	03/02/2000	Kia Silverbrook	AUTH15US	4978
7590 06/22/2004		EXAMINER		
Kia Silverbrook			NGUYEN, NGA B	
Silverbrook Research Pty Ltd			ADT LOUT	DARED MERCER
393 Darling Street			ART UNIT	PAPER NUMBER
Balmain, 2041			3628	
AUSTRALIA			DATE MAILED: 06/22/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
Office Action Summary		09/517,541	SILVERBROOK ET AL.	
		Examiner	Art Unit	1
		Nga B. Nguyen	3628	UW
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover sheet w	ith the correspondence	address
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION insions of time may be available under the provisions of 37 CFR of SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a report of the provision of t	I. 1.136(a). In no event, however, may a reply within the statutory minimum of third d will apply and will expire SIX (6) MONute, cause the application to become AE	reply be timely filed  ty (30) days will be considered tin  ITHS from the mailing date of this  BANDONED (35 U.S.C. § 133).	
Status				
1)	Responsive to communication(s) filed on 01	Anril 2004		
·	•	is action is non-final.		
3)	· —		ers, prosecution as to t	he merits is
•	closed in accordance with the practice under	· · · · · · · · · · · · · · · · · · ·	• •	
Disposit	ion of Claims			
5)□ 6)⊠ 7)□	Claim(s) 1-8 is/are pending in the application 4a) Of the above claim(s) is/are withdred Claim(s) is/are allowed.  Claim(s) 1-8 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and	awn from consideration.		
Applicat	ion Papers			
9)[	The specification is objected to by the Examir	ner.		
10)[	The drawing(s) filed on is/are: a) ac	ccepted or b) objected to	by the Examiner.	
	Applicant may not request that any objection to the		` '	
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the I			
Priority (	under 35 U.S.C. § 119			,
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority documents.  2. Certified copies of the priority documents.  3. Copies of the certified copies of the prince application from the International Bure.  See the attached detailed Office action for a list	nts have been received. nts have been received in A ority documents have been au (PCT Rule 17.2(a)).	pplication No received in this Nation	al Stage
Attachmen	t(s)			
	e of References Cited (PTO-892)	4) T Interview S	Summary (PTO-413)	
2)  Notic 3)  Infor	the of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/03 or No(s)/Mail Date	Paper No(s	s)/Mail Date nformal Patent Application (P 	TO-152)

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#### **DETAILED ACTION**

1. This Office Action is the answer to the communication filed on April 1, 2004, which paper has been placed of record in the file.

2. Claims 1-8 are pending in this application.

## Response to Arguments/Amendment

3. Applicant's arguments with respect to claims 1-8 have been considered but are moot in view of new grounds of rejection.

### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Park, U.S. Patent No. 5,673,223.

Regarding to claim 1, Park discloses in an authentication chip in which secret data is manipulated, a method of shielding manipulations of the secret data from observation, including the steps of: operating non-flashing CMOS structures in the chip, in which pMOS and nMOS transistors are driven such that they do not have intermediate resistance simultaneously during a change of state of the CMOS structure, to manipulate the secret data (columns 1-2 and column 4, lines 17-55).

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Park does not disclose operating conventional CMOS inverters adjacent the non-flashing CMOS structures at the same time. However, operating the conventional CMOS inverters is well known in the art. Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify Park's to operate the conventional CMOS inverters the same time with the non-flashing CMOS structures for the purpose of improving the security in operation of an authentication chip in which secret data is manipulated

Regarding to claims 2-3, Park does not disclose generating continuous circuit noise to a tamper detection line and driving the conventional CMOS structures from the tamper detection line. However, generating continuous circuit noise to a tamper detection line and driving the conventional CMOS structures from the tamper detection line is well known in the art of semiconductor. Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify Park's to include the feature above for the purpose of generating continuous circuit noise in the conventional CMOS structures.

Regarding to claim 4, Park does not disclose driving the conventional CMOS multiple times faster than non-flashing CMOS. However, it is well known in the art to drive the conventional CMOS multiple times faster than non-flashing CMOS. This is a desired choice. Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to modify Park's to include the feature above for the desired purpose.

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Regarding to claims 5-8, Park discloses an authentication chip (figures 2-3) for performing the method as discussed in claims 1-4 above, therefore are rejected by the same rationale.

#### Conclusion

6. Claims 1-8 are rejected.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Nga B. Nguyen whose telephone number is (703) 306-2901. The examiner can normally be reached on Monday-Thursday from 9:00AM-6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hyung S. Sough can be reached on (703) 308-0505.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 306-1113.

8. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

C/o Technology Center 3600

Washington, DC 20231

Or faxed to:

(703) 872-9326 (for formal communication intended for entry),

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(703) 308-3691 (for informal or draft communication, please label "PROPOSED" or "DRAFT").

Hand-delivered responses should be brought to Crystal Park 5, 2451 Crystal Drive, Arlington, VA, Seventh Floor (Receptionist).

Nga B. Nguyen

June 10, 2004°